UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,009	03/23/2004	Misty Azara	CQ10220	2808
23493 SUGHDUE MI	7590 01/31/2008		EXAMINER	
SUGHRUE MION, PLLC 2100 Pennsylvania Avenue, N.W.		•	AZAD, ABUL K	
Washington, D	C 20037		ART UNIT	PAPER NUMBER
,			2626	
			NOTIFICATION DATE	DELIVERY MODE
			01/31/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@sughrue.com USPatDocketing@sughrue.com

		Application No.	Applicant(s)		
Office Action Summary		10/807,009	AZARA ET AL.		
		Examiner	Art Unit		
		ABUL K. AZAD	2626		
Period fo	The MAILING DATE of this communication ap	opears on the cover sheet w	vith the correspondence address		
A SHO WHIC - Exten after: - If NO - Failur Any ro	ORTENED STATUTORY PERIOD FOR REP HEVER IS LONGER, FROM THE MAILING I sions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ate, cause the application to become A	ICATION. Treply be timely filed WITHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
Status					
1)	Responsive to communication(s) filed on 04	October 2007.			
	This action is FINAL . 2b) This action is non-final.				
3)[Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the merits is		
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.		
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1,2,5-8,10,11 and 14-20</u> is/are pend 4a) Of the above claim(s) is/are withdr Claim(s) is/are allowed. Claim(s) <u>1,2,5-8,10,11 and 14-20</u> is/are reject Claim(s) is/are objected to. Claim(s) are subject to restriction and	awn from consideration.			
Application	on Papers				
10) 🔲 ¯	The specification is objected to by the Examir The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	ccepted or b) objected to e drawing(s) be held in abeya ection is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
12)[/ a)[Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the prince application from the International Burestee the attached detailed Office action for a list	nts have been received. nts have been received in a ority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage		
Attachment	(s) e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)		
2)	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application		

DETAILED ACTION

Response to Amendment

- 1. This action is in response to the communication filed on October 4, 2007.
- 2. Claims 1, 2, 5-8, 10, 11, 14-20 are pending in this action. Claims 1, 7, 8, 10 and 16 have been amended. Claims 3, 4, 9, 12 and 13 have been canceled.
- 3. The applicant's arguments with respect to claims 1, 2, 5-8, 10, 11 and 14-20 have been fully considered but they are not deemed to be persuasive. For examiner's response to the applicant's arguments or comments, see the detailed discussion in the Response to the Arguments section.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Jurafsky et al. (Automatic Detection of Discourse Structure for Speech Recognition and Understanding).

As per claim 1, Jurafsky teaches, "a method of determining user interactions comprising the steps of: "determining speech information" (section 3 Dialog Act

Art Unit: 2626

Detection); "determining discourse functions and prosodic features in the speech information" (section 3.1 Prosodic Dialog Act Detection);

"determining a predictive interaction model" (section 3.1 Prosodic Dialog Act Detection); and

"determining an interaction turn based on the predictive interaction model and the determined discourse functions and prosodic features (Section 3.4, The combined Dialog Act Detector), wherein the discourse functions are determined based on a theory of discourse analysis (Sections 3.2 and 3.3), the theory of discourse analysis is at least one of: the Linguistic Discourse Model, the Unified Linguistic Discourse Model, Rhetorical Structures Theory, Discourse Structure Theory and Structured Discourse Representation Theory" (Sections 3.2 and 3.3)".

As per claim 2, Jurafsky teaches, "in which the discourse functions are determined from automatically recognized speech information" (Section 1. Introduction).

As per claim 5, Jurafsky teaches, "further comprising the step of scheduling an interaction event based on the turn prediction" (Abstract).

As per claim 6, Jurafsky teaches, "in which the prosodic features include at least one of: a silence preceding a discourse functions; a silence following a discourse function; rate of speech; pitch frequency; changes in pitch frequency and volume" (Section 3).

As per claims 7-20, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1-6.

Art Unit: 2626

Response to Arguments

Page 4

- 6. The applicant argues, "the approach taken by the Jurafsky et al. reference to discourse analysis theories such as Linguistic Discourse Model, the Unified Linguistic Discourse Model, Rhetorical Structures Theory, Discourse Structure Theory and Structured Discourse Representation Theory. In this regard, Applicants call the Examiner's attention to section 3.3 of Jurafsky et al. which describes the aforesaid N-gram discourse grammars. On the other hand, Jurafsky et al. reference makes no mention of the claimed determining discourse function based on theory of discourse analysis including linguistic discourse model, Unified Linguistic Discourse Model, Rhetorical Structures Theory, Discourse Structure Theory and Structured Discourse Representation Theory. For this reason, Jurafsky et al. does not teach or suggest all the limitations of the amended claims 1, 7, 10 and 16 made, therefore, these claims are not anticipated by Jurafsky et al.".
- 7. The examiner disagrees with the applicant's above assertion, because the Jurafsky reference describes N-gram discourse grammar, which is theory of discourse including at least linguistic discourse model. Since applicant did not particularly mention what is the difference between Jurafsky's determining N-gram discourse grammar with the claimed determining discourse function based on theory of discourse analysis including linguistic discourse model, therefore, Jurafsky's N-gram discourse grammar reads on the claimed limitation.

Art Unit: 2626

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Abul K. Azad whose telephone number is (571) 272-

7599. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patric Edouard, can be reached at (571) 272-7603.

Any response to this action should be mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to: (571) 273-8300.

Page 5

Art Unit: 2626

Page 6

Hand-delivered responses should be brought to **401 Dulany Street**, **Alexandria**, **VA-22314** (Customer Service Window).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 23, 2007

Abul K. Azad Primary Examiner Art Unit 2626